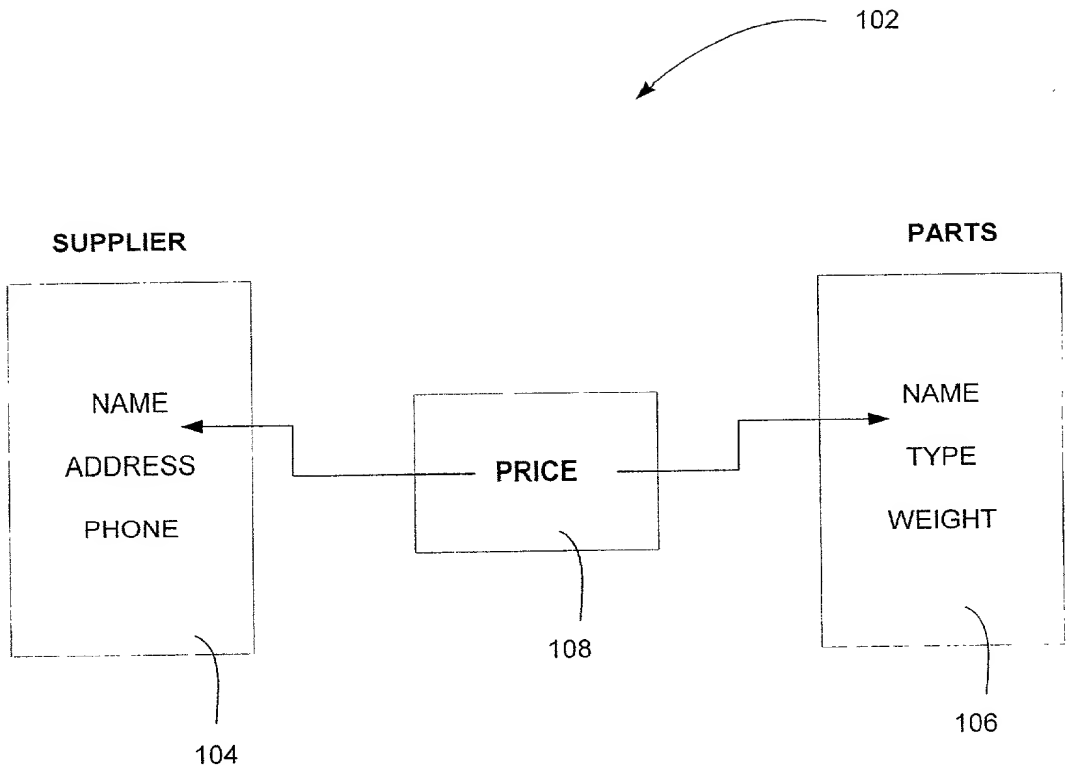
102
SUPPLIER
PARTS
NAME
ADDRESS
PHONE
PRICE
NAME
TYPE
WEIGHT
104
108
106

FIG. 1

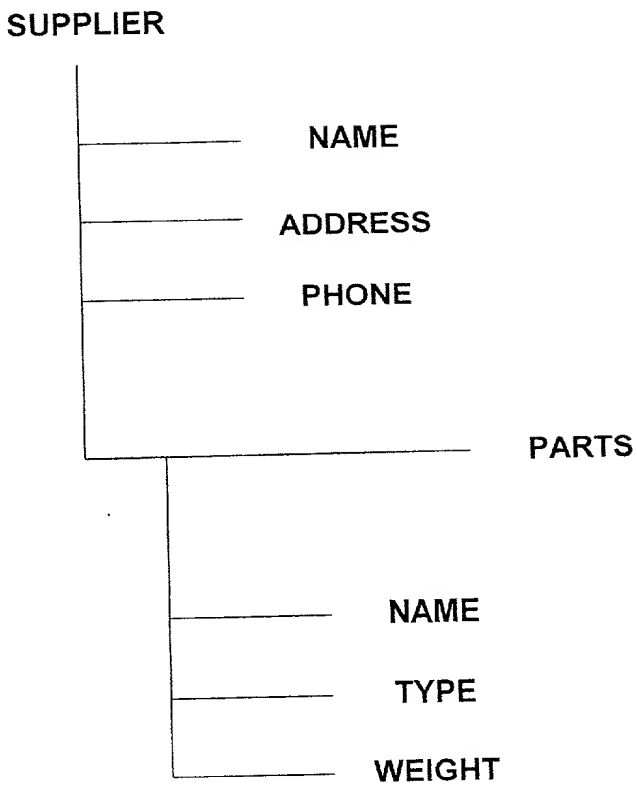

FIG. 2

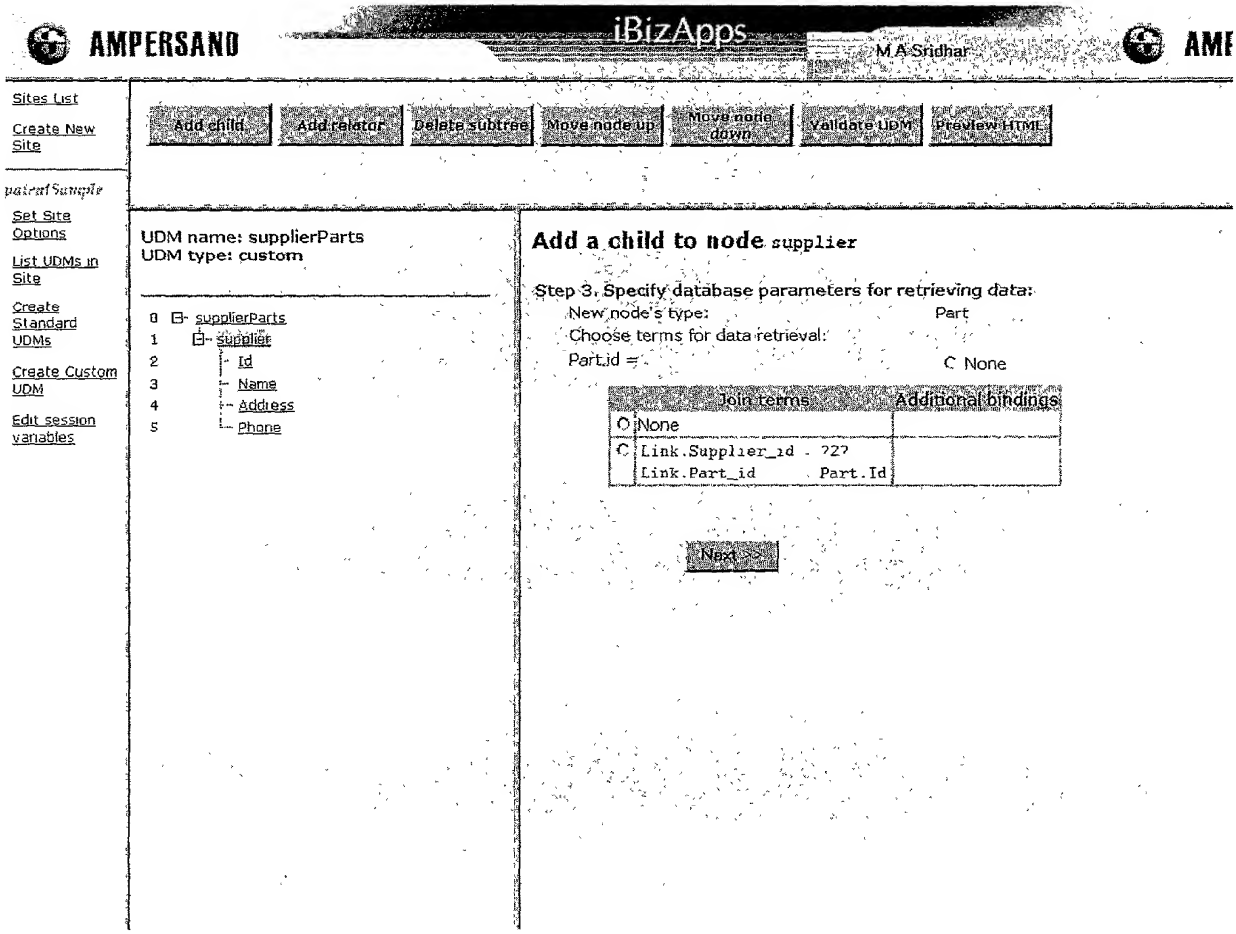
AMPERSAND
iBizApps
M A Sridhar
AMI
Sites List
Create New Site
patrolSample
Set Site Options
List UDMs in Site
Create Standard UDMs
Create Custom UDM
Edit session variables
Add child
Add relator
Delete subtree
Move node up
Move node down
Validate UDM
Preview HTML
UDM name: supplierParts
UDM type: custom
0 supplierParts
1 supplier
2 Id
3 Name
4 Address
5 Phone
Add a child to node supplier
Step 3. Specify database parameters for retrieving data:
New node's type: Part
Choose terms for data retrieval:
Part.id =
C None
Join terms
Additional bindings
None
Link.Supplier_id = ?2?
Link.Part_id Part.Id
Next

Fig. 3

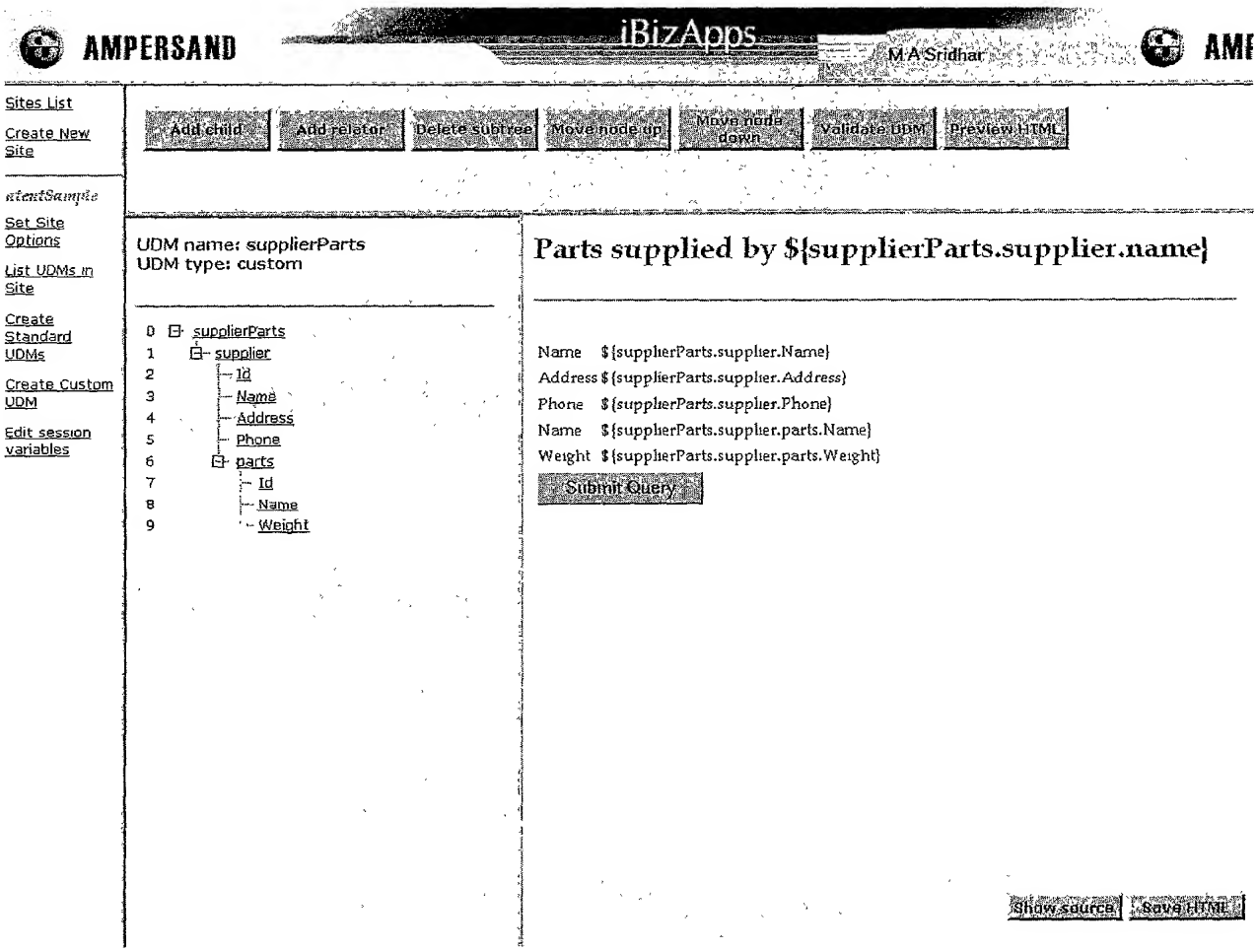
AMPERSAND
iBizApps
M A Sridhar
Sites List
Create New Site
clientSample
Set Site Options
List UDMs in Site
Create Standard UDMs
Create Custom UDM
Edit session variables
Add child
Add relator
Delete subtree
Move node up
Move node down
Validate UDM
Preview HTML
UDM name: supplierParts
UDM type: custom
0 supplierParts
1 supplier
2 Id
3 Name
4 Address
5 Phone
6 parts
7 Id
8 Name
9 Weight
Parts supplied by ${supplierParts.supplier.name}
Name ${supplierParts.supplier.Name}
Address ${supplierParts.supplier.Address}
Phone ${supplierParts.supplier.Phone}
Name ${supplierParts.supplier.parts.Name}
Weight ${supplierParts.supplier.parts.Weight}
Submit Query
Show source
Save HTML

Fig. 4

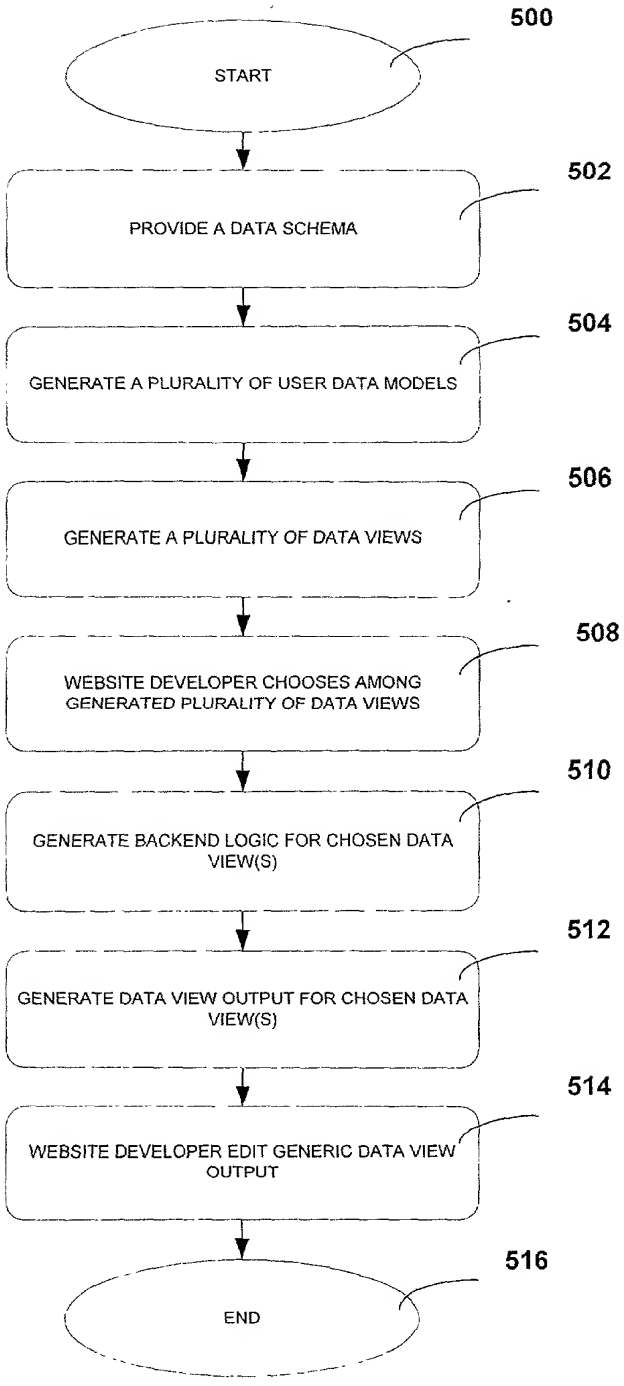
500
START
502
PROVIDE A DATA SCHEMA
504
GENERATE A PLURALITY OF USER DATA MODELS
506
GENERATE A PLURALITY OF DATA VIEWS
508
WEBSITE DEVELOPER CHOOSES AMONG GENERATED PLURALITY OF DATA VIEWS
510
GENERATE BACKEND LOGIC FOR CHOSEN DATA VIEW(S)
512
GENERATE DATA VIEW OUTPUT FOR CHOSEN DATA VIEW(S)
514
WEBSITE DEVELOPER EDIT GENERIC DATA VIEW OUTPUT
516
END

FIG. 5

Docket Text360

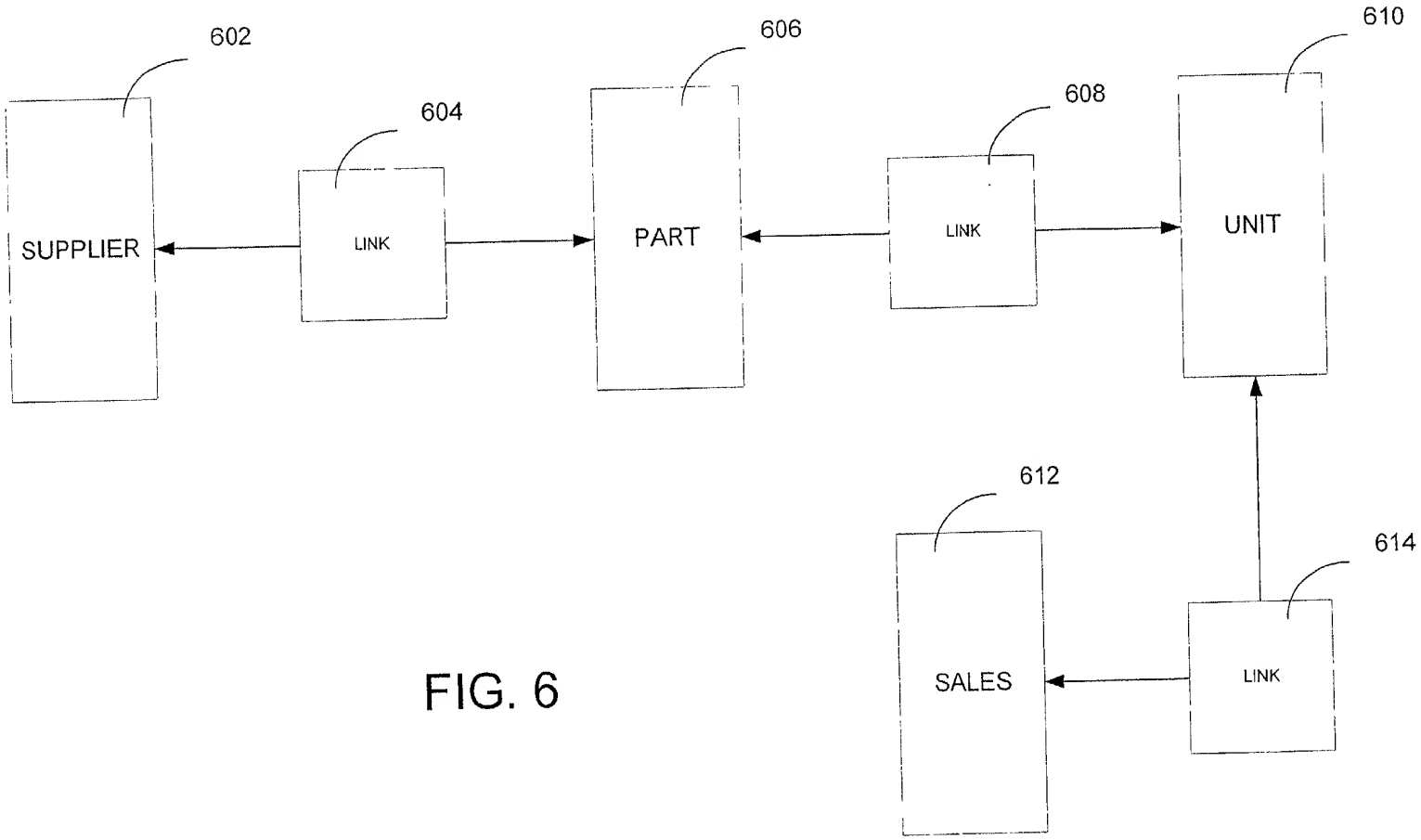

FIG. 6

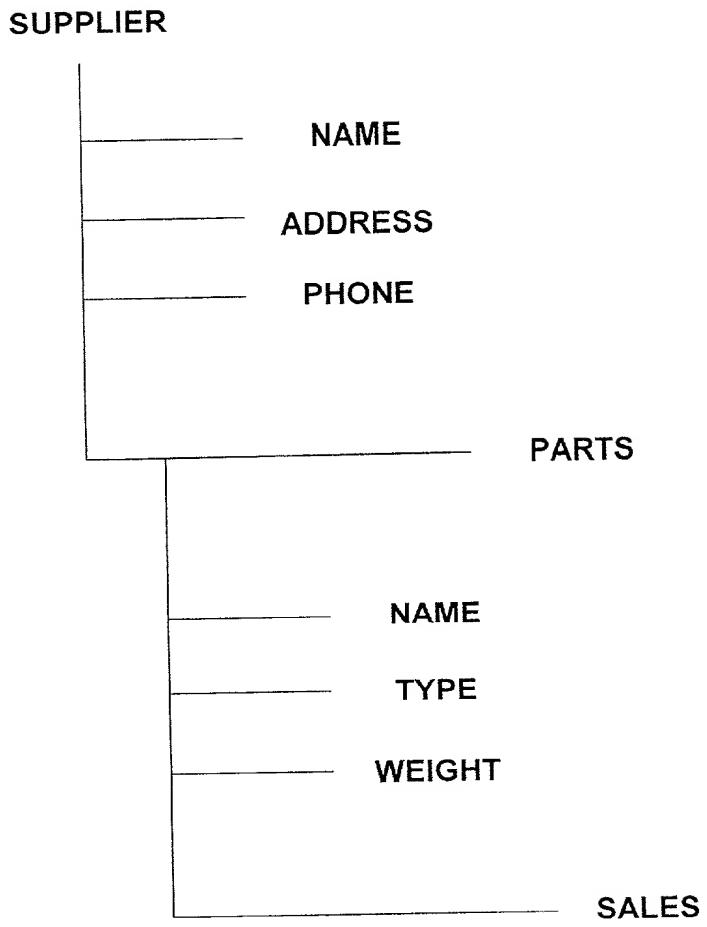

FIG. 7

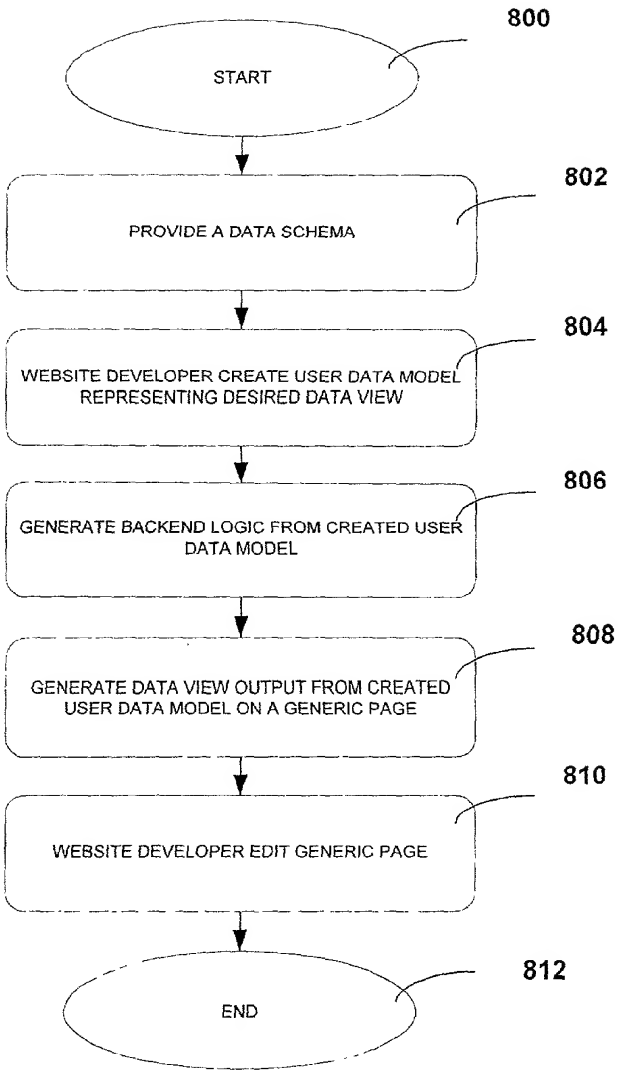
800
START
802
PROVIDE A DATA SCHEMA
804
WEBSITE DEVELOPER CREATE USER DATA MODEL REPRESENTING DESIRED DATA VIEW
806
GENERATE BACKEND LOGIC FROM CREATED USER DATA MODEL
808
GENERATE DATA VIEW OUTPUT FROM CREATED USER DATA MODEL ON A GENERIC PAGE
810
WEBSITE DEVELOPER EDIT GENERIC PAGE
812
END

FIG. 8

TOSTEO Tech9260

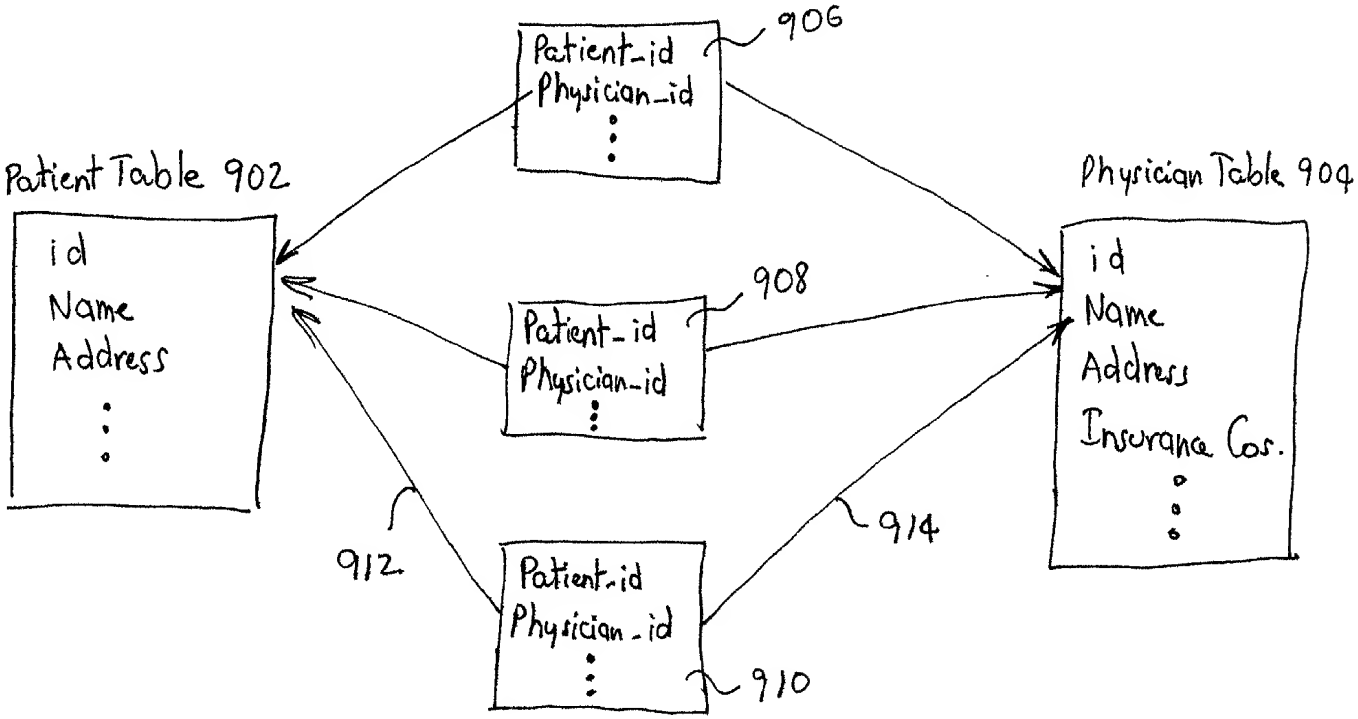

Fig. 9

RECORD ID	NAME	ADDRESS	CITY	STATE
15	ACME TECHNOLOGIES	123 SPRING ST	RENO	NV
21	PAPER-R-US	17 TECHNOLOGY DR.	SAN JOSE	CA

1012

1000

1020

1002

1004

1006

ID	SUPPLIER_ID	PART_ID
1	15	7
2	15	3
3	21	14

1014

1016

RECORD ID	NAME	TYPE	DESCRIPTION
3	SHOE POLISH	PERSONAL SUPPLIES	BLACK
7	TOOTH PASTE	RESALE	FLOURIDE ENHANCED
14	PAPER CLIP	OFFICE SUPPLIES	PLASTIC SIZE 4

1022

FIG. 10

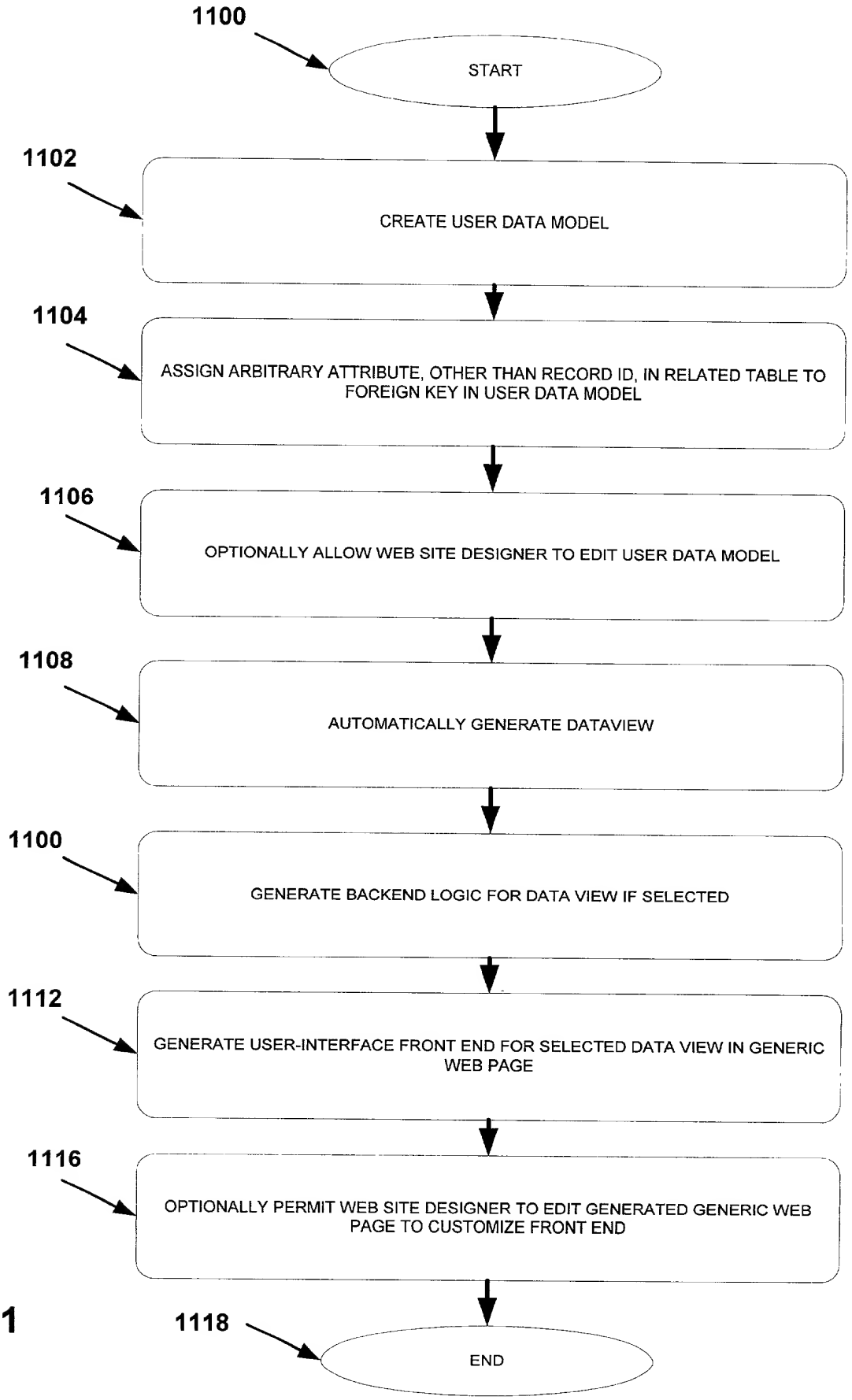
1100
START
1102
CREATE USER DATA MODEL
1104
ASSIGN ARBITRARY ATTRIBUTE, OTHER THAN RECORD ID, IN RELATED TABLE TO FOREIGN KEY IN USER DATA MODEL
1106
OPTIONALLY ALLOW WEB SITE DESIGNER TO EDIT USER DATA MODEL
1108
AUTOMATICALLY GENERATE DATAVIEW
1100
GENERATE BACKEND LOGIC FOR DATA VIEW IF SELECTED
1112
GENERATE USER-INTERFACE FRONT END FOR SELECTED DATA VIEW IN GENERIC WEB PAGE
1116
OPTIONALLY PERMIT WEB SITE DESIGNER TO EDIT GENERATED GENERIC WEB PAGE TO CUSTOMIZE FRONT END
1118
END

FIG. 11

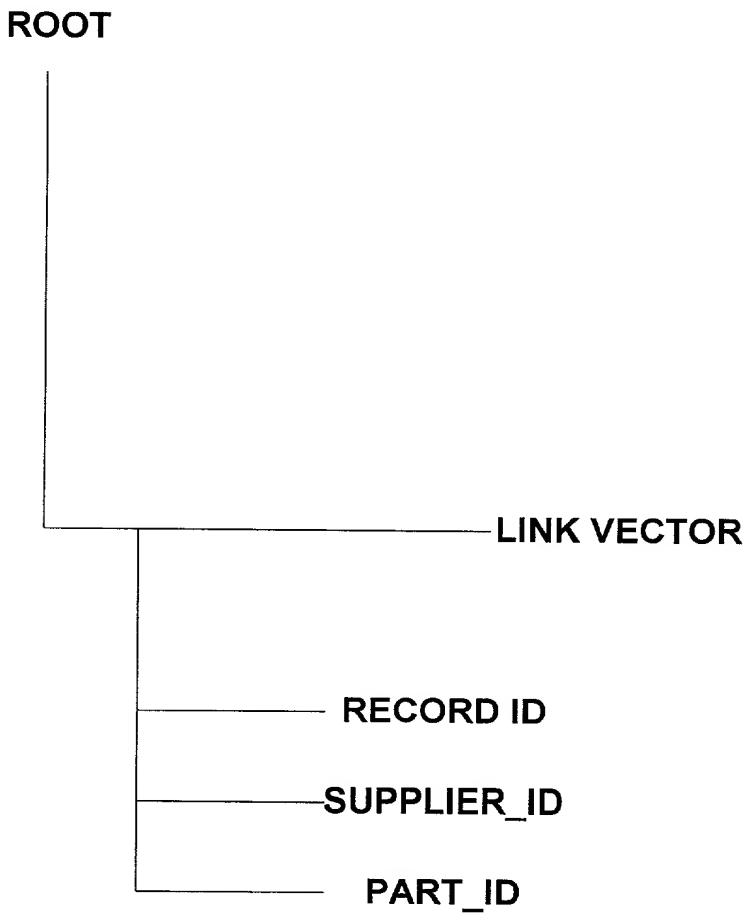

FIG. 12

RECORD ID	SUPPLIER ID	PART ID
1	ACME TECHNOLOGIES	TOOTH PASTE
2	ACME TECHNOLOGIES	SHOE POLISH
3	PAPER-R-US	PAPER CLIP

FIG. 13

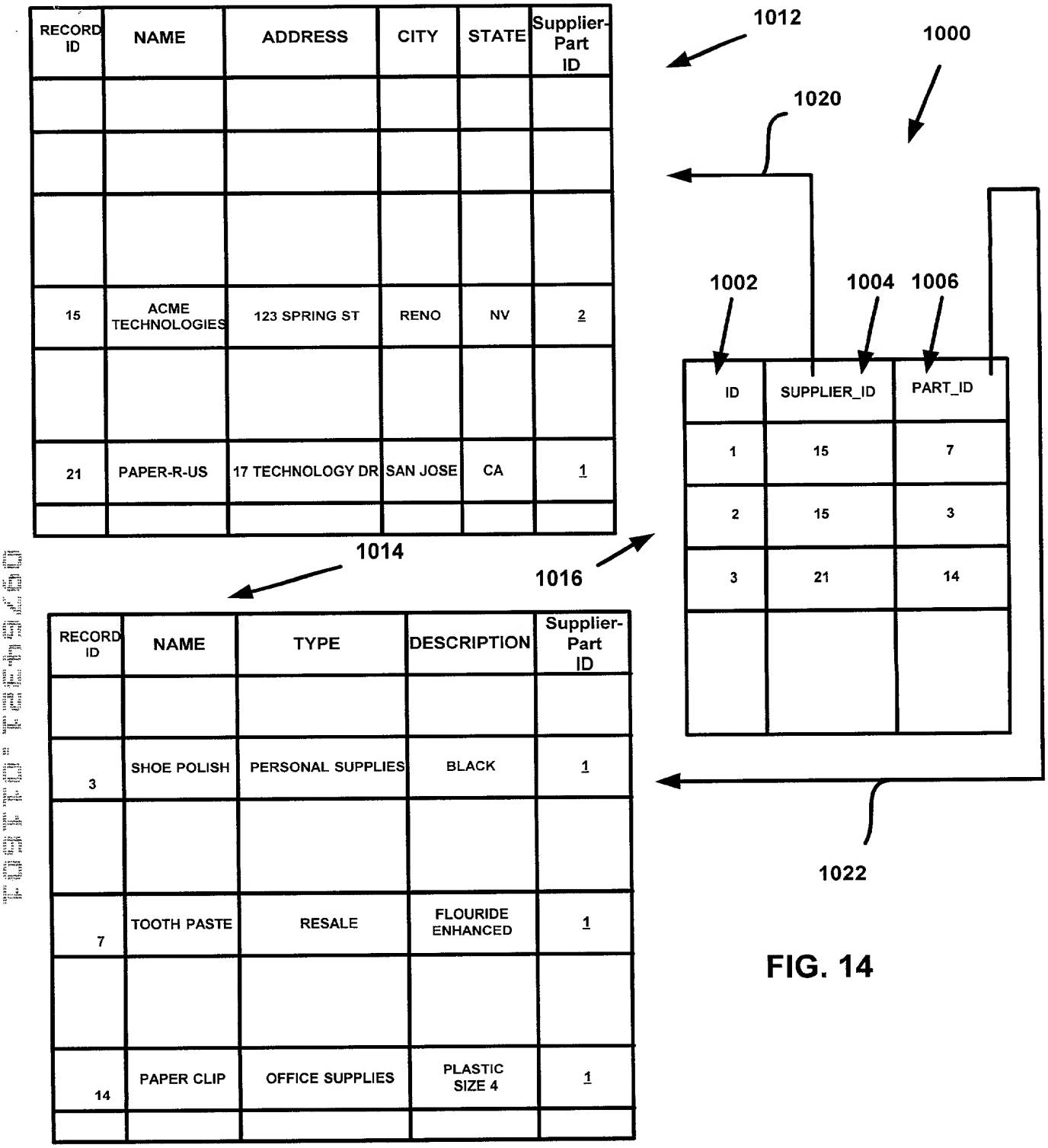
1012
1000
1020
1002
1004
1006
1014
1016
1022
RECORD ID
NAME
ADDRESS
CITY
STATE
Supplier-Part ID
15
ACME TECHNOLOGIES
123 SPRING ST
RENO
NV
2
21
PAPER-R-US
17 TECHNOLOGY DR
SAN JOSE
CA
1
ID
SUPPLIER_ID
PART_ID
1
15
7
2
15
3
3
21
14
RECORD ID
NAME
TYPE
DESCRIPTION
Supplier-Part ID
3
SHOE POLISH
PERSONAL SUPPLIES
BLACK
1
7
TOOTH PASTE
RESALE
FLOURIDE ENHANCED
1
14
PAPER CLIP
OFFICE SUPPLIES
PLASTIC SIZE 4
1

FIG. 14

RECORD ID	NAME	ADDRESS	CITY	STATE	Supplier-Part ID	Supplier-Invoice ID
15	ACME TECHNOLOGIES	123 SPRING ST	RENO	NV	2	5
21	PAPER-R-US	17 TECHNOLOGY DR.	SAN JOSE	CA	1	3

FIG. 15

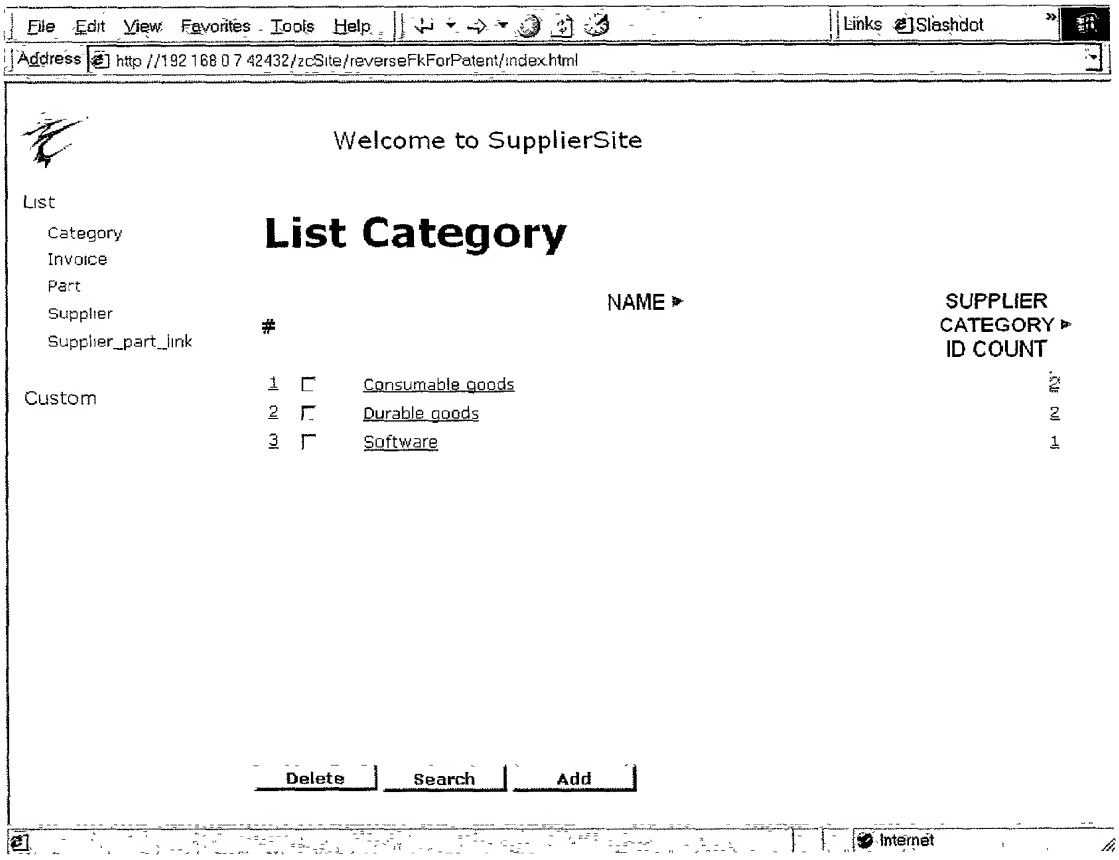
File Edit View Favorites Tools Help
Links Slashdot
Address http://192.168.0.7:42432/zcSite/reverseFkForPatent/index.html
Welcome to SupplierSite
List
Category
Invoice
Part
Supplier
Supplier_part_link
Custom
List Category
#
NAME
SUPPLIER CATEGORY ID COUNT
1 Consumable goods 2
2 Durable goods 2
3 Software 1
Delete
Search
Add
Internet

Fig. 16A

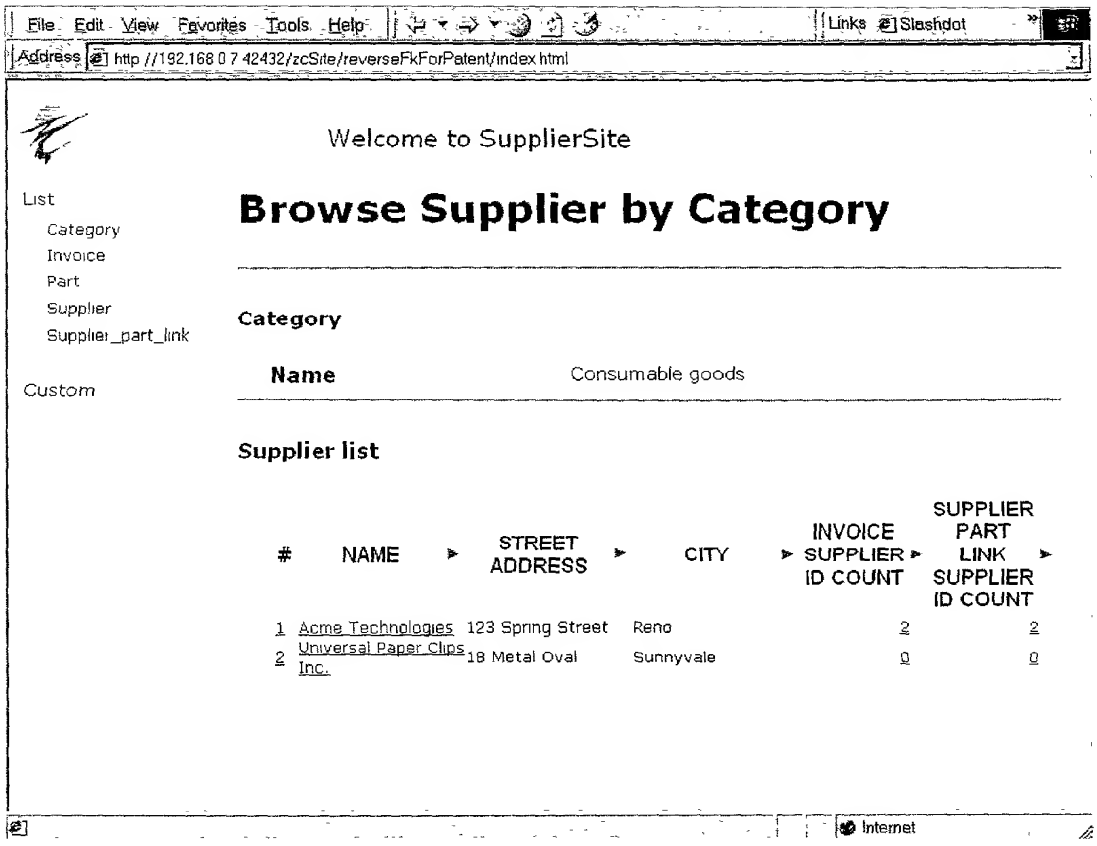
File Edit View Favorites Tools Help
Links Slashdot
Address http://192.168.0.7:42432/zcSite/reverseFkForPatent/index.html
Welcome to SupplierSite
List
Category
Invoice
Part
Supplier
Supplier_part_link
Custom
Browse Supplier by Category
Category
Name
Consumable goods
Supplier list
NAME STREET ADDRESS CITY INVOICE SUPPLIER ID COUNT SUPPLIER PART LINK SUPPLIER ID COUNT
1 Acme Technologies 123 Spring Street Reno 2 2
2 Universal Paper Clips Inc. 18 Metal Oval Sunnyvale 0 0
Internet

Fig. 16B

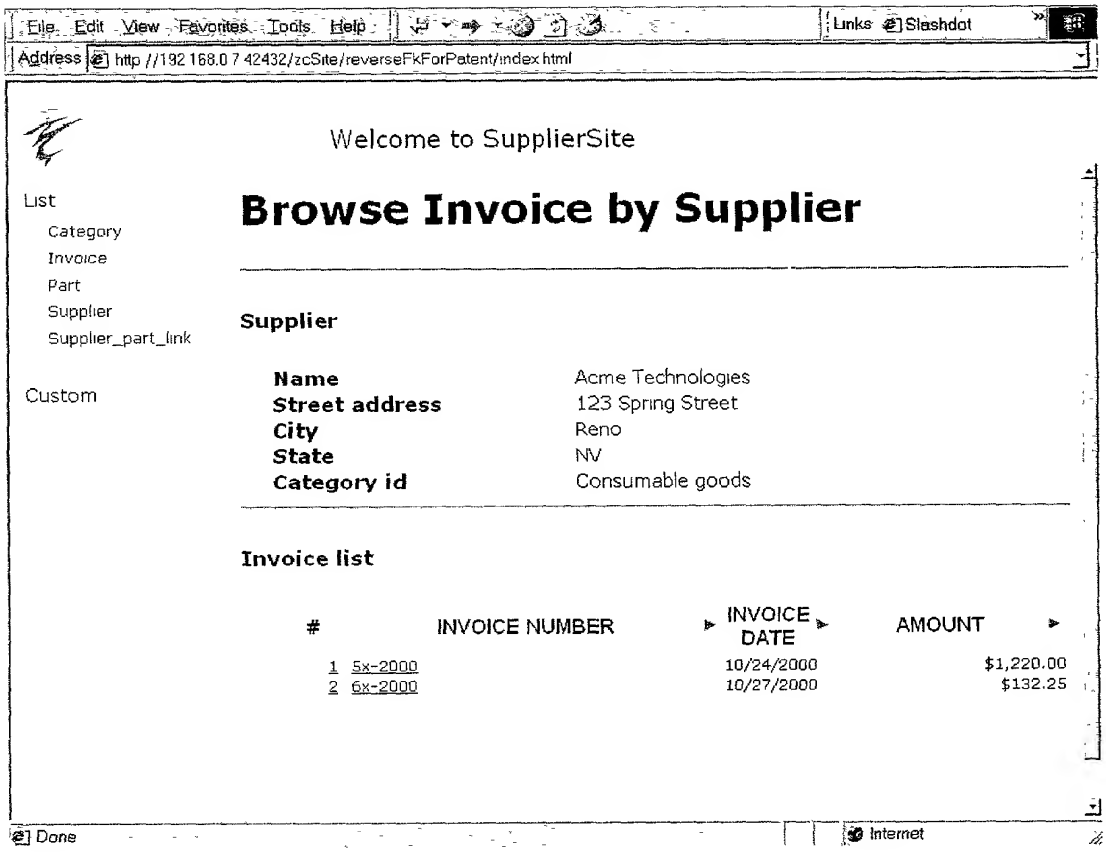
File Edit View Favorites Tools Help
Links Slashdot
Address http://192.168.0.7:42432/zcSite/reverseFkForPatent/index.html
Welcome to SupplierSite
List
Category
Invoice
Part
Supplier
Supplier_part_link
Custom
Browse Invoice by Supplier
Supplier
Name Acme Technologies
Street address 123 Spring Street
City Reno
State NV
Category id Consumable goods
Invoice list
INVOICE NUMBER INVOICE DATE AMOUNT
1 5x-2000 10/24/2000 $1,220.00
2 6x-2000 10/27/2000 $132.25
Done
Internet

Fig. 16C

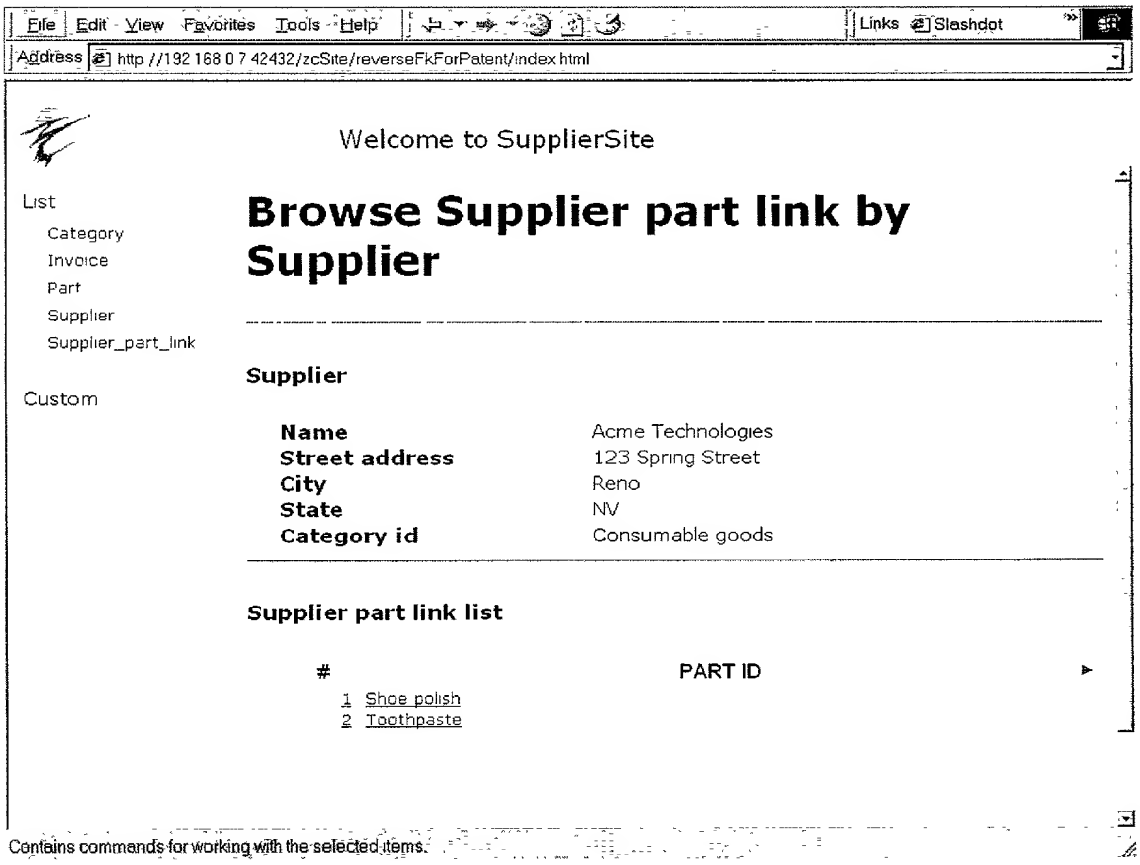
File Edit View Favorites Tools Help
Links Slashdot
Address http //192 168 0 7 42432/zcSite/reverseFkForPatent/index html
Welcome to SupplierSite
List
Category
Invoice
Part
Supplier
Supplier_part_link
Custom
Browse Supplier part link by Supplier
Supplier
Name Acme Technologies
Street address 123 Spring Street
City Reno
State NV
Category id Consumable goods
Supplier part link list
PART ID
1 Shoe polish
2 Toothpaste
Contains commands for working with the selected items.

Fig. 16D